

Michael Kearns

List of Publications by Year in descending order

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36
papers

3,827
citations

394421

19
h-index

501196

28
g-index

37
all docs

37
docs citations

37
times ranked

2446
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryptographic limitations on learning Boolean formulae and finite automata. Journal of the ACM, 1994, 41, 67-95.	2.2	504
2	Fairness in Criminal Justice Risk Assessments: The State of the Art. Sociological Methods and Research, 2021, 50, 3-44.	6.8	390
3	Algorithmic Stability and Sanity-Check Bounds for Leave-One-Out Cross-Validation. Neural Computation, 1999, 11, 1427-1453.	2.2	351
4	Near-Optimal Reinforcement Learning in Polynomial Time. Machine Learning, 2002, 49, 209-232.	5.4	351
5	Efficient noise-tolerant learning from statistical queries. Journal of the ACM, 1998, 45, 983-1006.	2.2	330
6	A general lower bound on the number of examples needed for learning. Information and Computation, 1989, 82, 247-261.	0.7	273
7	Learning in the Presence of Malicious Errors. SIAM Journal on Computing, 1993, 22, 807-837.	1.0	225
8	An Experimental Study of the Coloring Problem on Human Subject Networks. Science, 2006, 313, 824-827.	12.6	205
9	A Sparse Sampling Algorithm for Near-Optimal Planning in Large Markov Decision Processes. Machine Learning, 2002, 49, 193-208.	5.4	146
10	On the learnability of discrete distributions. , 1994, , .		132
11	Behavioral experiments on biased voting in networks. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1347-1352.	7.1	114
12	An Empirical Study of Rich Subgroup Fairness for Machine Learning. , 2019, , .		80
13	Behavioral dynamics and influence in networked coloring and consensus. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14978-14982.	7.1	76
14	A social reinforcement learning agent. , 2001, , .		74
15	Bounds on the sample complexity of Bayesian learning using information theory and the VC dimension. Machine Learning, 1994, 14, 83-113.	5.4	72
16	On the Boosting Ability of Top-Down Decision Tree Learning Algorithms. Journal of Computer and System Sciences, 1999, 58, 109-128.	1.2	67
17	Learning Boolean formulas. Journal of the ACM, 1994, 41, 1298-1328.	2.2	56
18	Experiments in social computation. Communications of the ACM, 2012, 55, 56-67.	4.5	44

#	ARTICLE	IF	CITATIONS
19	Censored exploration and the dark pool problem. Communications of the ACM, 2010, 53, 99-107.	4.5	36
20	Cobot in LambdaMOO: An Adaptive Social Statistics Agent. Autonomous Agents and Multi-Agent Systems, 2006, 13, 327-354.	2.1	32
21	Testing Problems with Sublearning Sample Complexity. Journal of Computer and System Sciences, 2000, 61, 428-456.	1.2	31
22	Fair Algorithms for Learning in Allocation Problems. , 2019, , .		29
23	Behavioral experiments in networked trade. , 2008, , .		27
24	Private algorithms for the protected in social network search. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 913-918.	7.1	24
25	Behavioral experiments on a network formation game. , 2012, , .		19
26	Rigorous Learning Curve Bounds from Statistical Mechanics. Machine Learning, 1996, 25, 195-236.	5.4	18
27	Efficient Learning of Typical Finite Automata from Random Walks. Information and Computation, 1997, 138, 23-48.	0.7	17
28	Rigorous learning curve bounds from statistical mechanics. Machine Learning, 1997, 25, 195-236.	5.4	16
29	Network bargaining. , 2009, , .		15
30	Ethical algorithm design. , 2020, 18, 31-36.		14
31	Mechanism Design in Large Games: Incentives and Privacy. American Economic Review, 2014, 104, 431-435.	8.5	13
32	Learning from a population of hypotheses. Machine Learning, 1995, 18, 255-276.	5.4	11
33	Interdependent Security in Interconnected Networks. , 2006, , 258-276.		10
34	Mathematical foundations for social computing. Communications of the ACM, 2016, 59, 102-108.	4.5	10
35	Regret to the best vs. regret to the average. Machine Learning, 2008, 72, 21-37.	5.4	8
36	Learning from a Population of Hypotheses. Machine Learning, 1995, 18, 255-276.	5.4	1